

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P730520

Luminaire Tested: **HBLED-LD5-18HE-N-CL-WG-UNV-L735**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33344)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-18HE-N-CL-WG-UNV-L735
Description: 18000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS, WIREGUARD & DOOR FRAME
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17189.0 lumens
Efficiency: N/A
Efficacy: 156.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 0.81 / 0.91
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

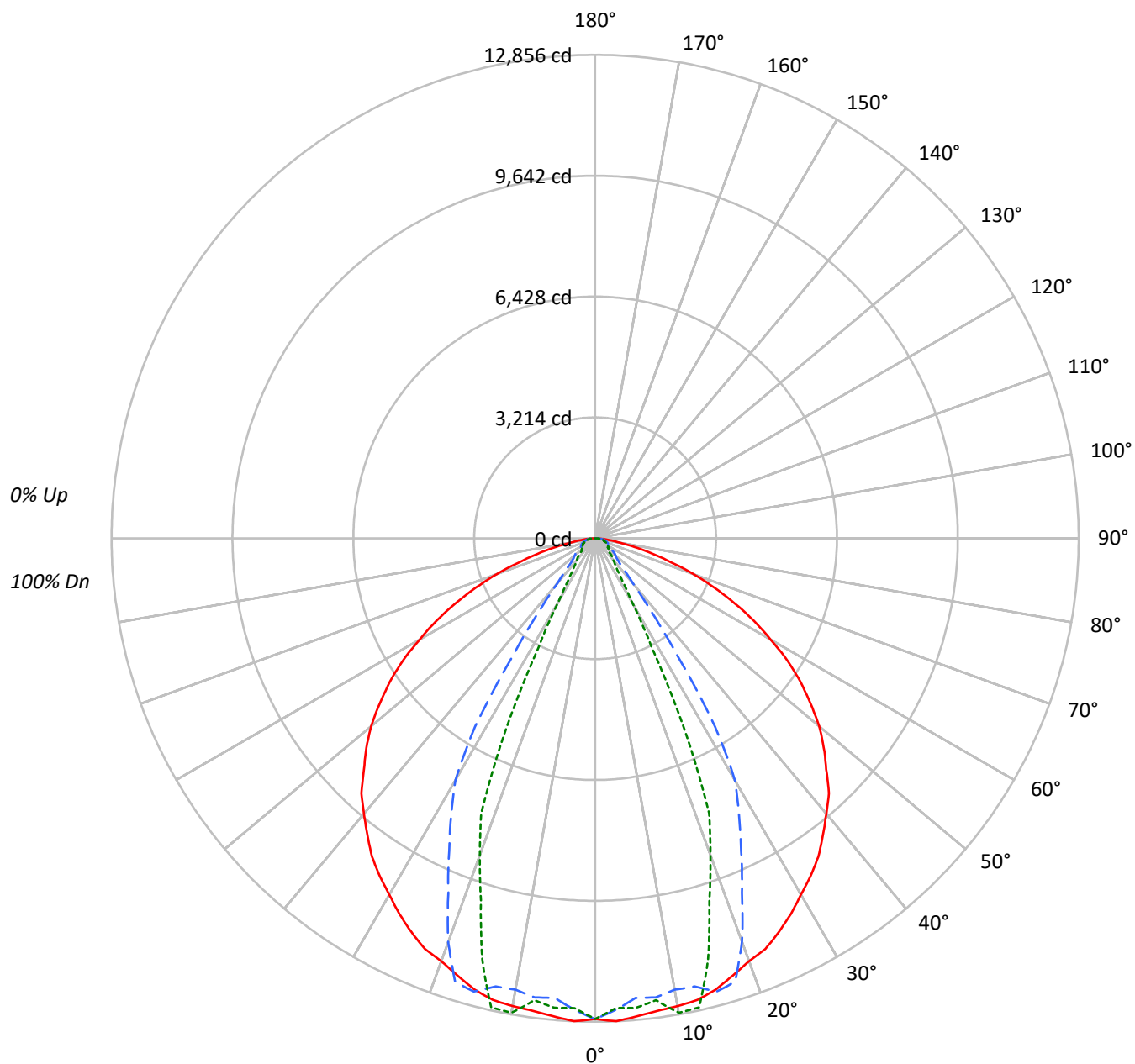
Input Watts (W): 110.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	108	104	101	109	105	103	100	101	99	97	98	96	94	94	92	91	89		
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79		
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71		
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64		
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58		
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53		
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	52	46	43	41		
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20644	20644	20644
5°	20678	19891	20310
10°	20708	19986	21012
15°	20755	20863	19390
20°	20558	19622	15391
25°	20588	16358	10054
30°	20403	13858	3612
35°	20382	7507	2031
40°	20151	3273	1591
45°	19839	2023	1247
50°	19530	1762	1178
55°	18762	1528	1152
60°	17408	1369	1238
65°	15647	1547	1353
70°	13123	1664	1395
75°	9810	1898	1511
80°	6162	2204	1722
85°	4103	2762	2521



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1185.1	6.9
10°-20°	3346.4	19.5
20°-30°	4097.8	23.8
30°-40°	3218.0	18.7
40°-50°	2386.4	13.9
50°-60°	1452.8	8.5
60°-70°	870.2	5.1
70°-80°	477.5	2.8
80°-90°	154.9	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	8629.3	50.2
0°-40°	11847.3	68.9
0°-60°	15686.5	91.3
0°-90°	17189.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17189.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12786	12786	12786	12786	12786	
5°	12758	12411	12272	12408	12531	###
15°	12416	12076	12481	11977	11600	3496
25°	11556	11593	9182	7202	5643	5320
35°	10340	9406	3809	1274	1031	6452
45°	8689	6239	886	671	546	6719
55°	6665	1719	543	459	409	5931
65°	4096	507	405	381	354	4047
75°	1573	320	304	264	242	1703
85°	222	174	149	137	136	270
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12786.1	12786.1	12786.1	12786.1	12786.1
2.5°	12855.8	12682.6	12550.0	12475.8	12505.9
5°	12758.4	12411.2	12272.4	12407.8	12531.0
7.5°	12674.0	12157.9	12314.7	12326.8	12391.4
10°	12630.9	12133.7	12190.6	12458.6	12816.2
12.5°	12574.1	12189.8	12209.5	12574.9	12776.5
15°	12416.4	12076.0	12481.0	11976.9	11600.3
17.5°	12186.3	11810.6	12367.2	10610.2	10098.4
20°	11964.8	11521.9	11420.3	9451.2	8957.4
22.5°	11821.8	11478.0	10201.8	8421.5	7911.3
25°	11556.4	11592.6	9182.4	7202.1	5643.3
27.5°	11264.3	11322.9	8281.0	4803.2	3233.1
30°	10943.7	11011.0	7433.1	2838.4	1937.2
32.5°	10653.3	10274.2	5936.3	1770.8	1346.8
35°	10340.5	9406.4	3808.7	1274.5	1030.6
37.5°	9946.7	8494.7	2411.0	1008.2	865.2
40°	9560.7	7676.1	1552.8	860.8	754.9
42.5°	9199.6	7001.4	1129.7	752.3	681.6
45°	8688.6	6238.8	885.9	671.2	546.3
47.5°	8246.6	5344.4	774.7	567.9	471.4
50°	7775.2	4086.3	701.4	505.0	468.8
52.5°	7215.9	2673.0	648.0	483.4	437.7
55°	6665.3	1719.1	542.8	459.3	409.3
57.5°	6070.7	1090.1	479.1	445.5	427.4
60°	5390.9	735.0	424.0	422.2	383.5
62.5°	4761.8	604.1	409.3	405.0	362.8
65°	4095.7	506.7	405.0	380.9	354.1
67.5°	3430.5	434.3	366.3	348.1	324.8
70°	2779.9	397.3	352.5	344.7	295.5
72.5°	2111.2	327.4	312.8	292.1	245.6
75°	1572.6	319.7	304.2	264.5	242.2
77.5°	1064.2	294.7	276.6	237.0	218.9
80°	662.7	270.6	237.0	207.7	185.2
82.5°	393.8	225.8	194.8	171.5	156.8
85°	221.5	174.1	149.1	137.0	136.1
87.5°	47.4	62.9	50.0	47.4	33.6
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)